FIG. 1

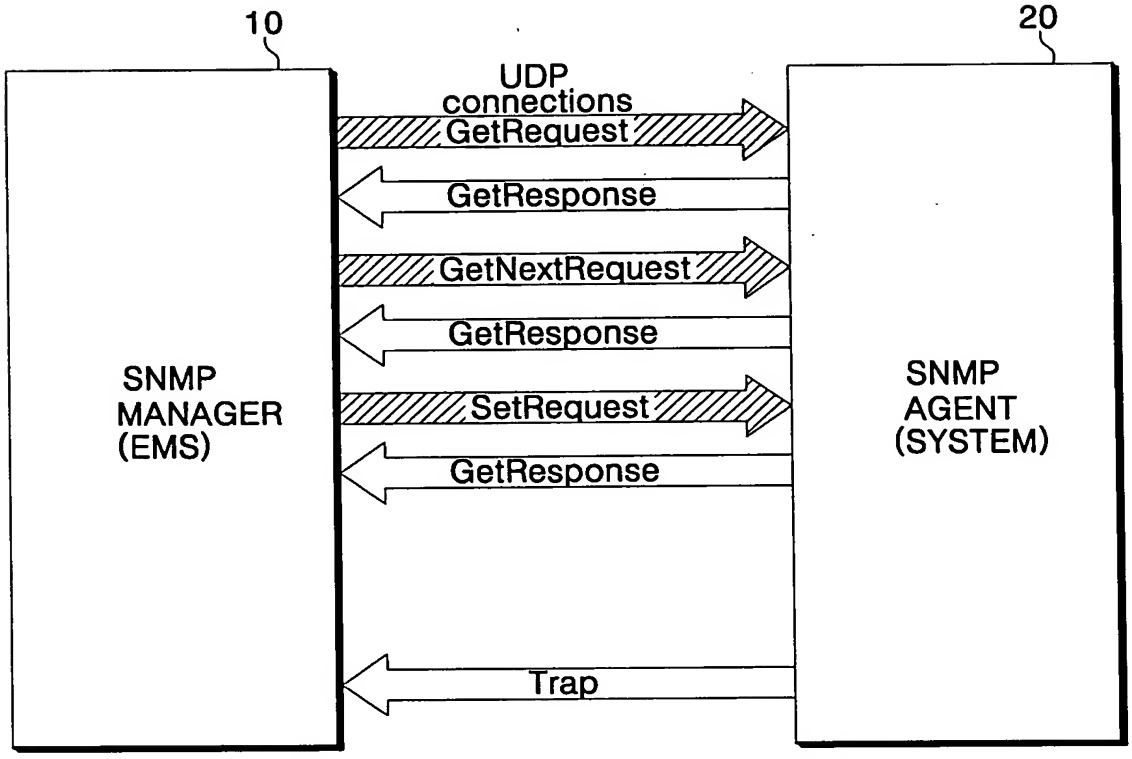

10
20
UDP
connections
GetRequest
GetResponse
GetNextRequest
GetResponse
SetRequest
GetResponse
Trap
SNMP
MANAGER
(EMS)
SNMP
AGENT
(SYSTEM)

FIG. 2

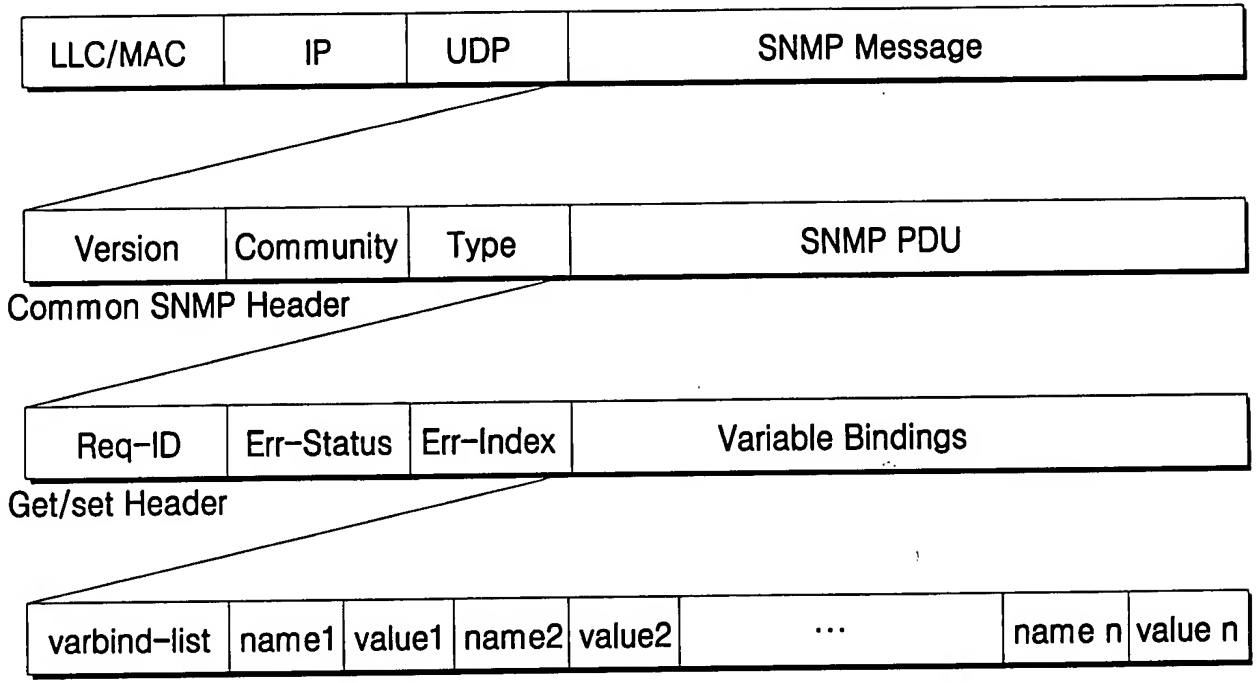

LLC/MAC
IP
UDP
SNMP Message
Version
Community
Type
SNMP PDU
Common SNMP Header
Req-ID
Err-Status
Err-Index
Variable Bindings
Get/set Header
varbind-list
name1
value1
name2
value2
...
name n
value n

FIG. 3

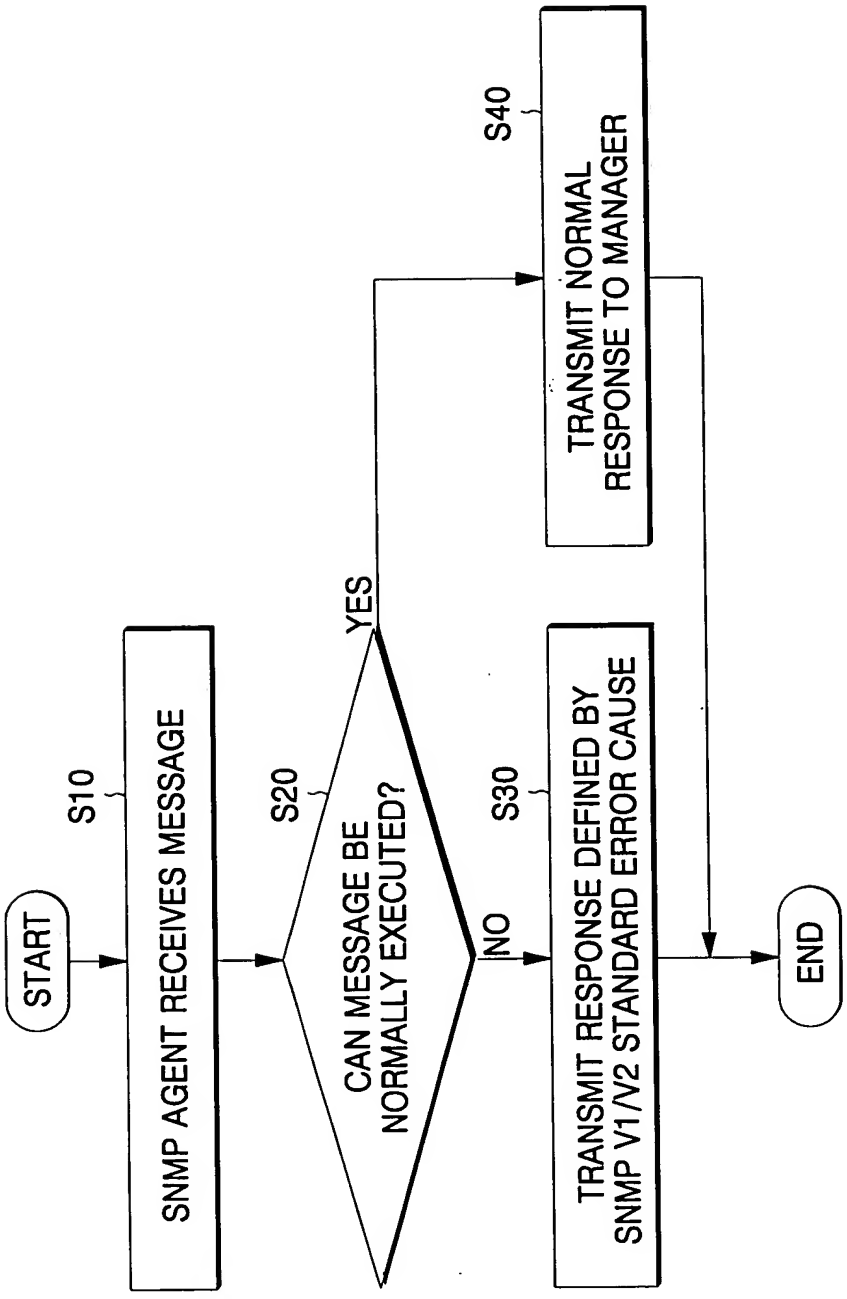

START
S10
SNMP AGENT RECEIVES MESSAGE
S20
CAN MESSAGE BE NORMALLY EXECUTED?
YES
NO
S30
TRANSMIT RESPONSE DEFINED BY SNMP V1/V2 STANDARD ERROR CAUSE
S40
TRANSMIT NORMAL RESPONSE TO MANAGER
END

FIG. 4

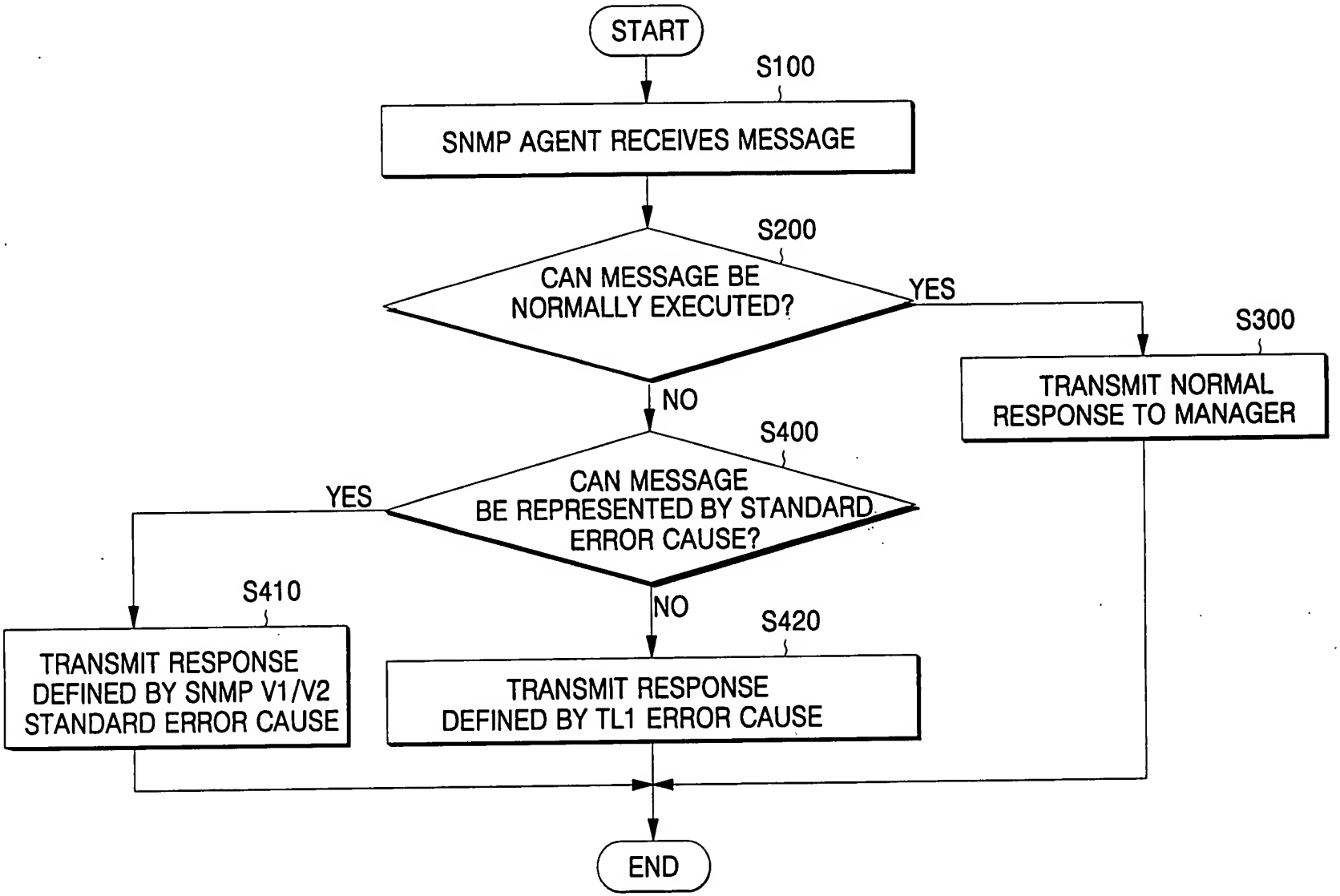
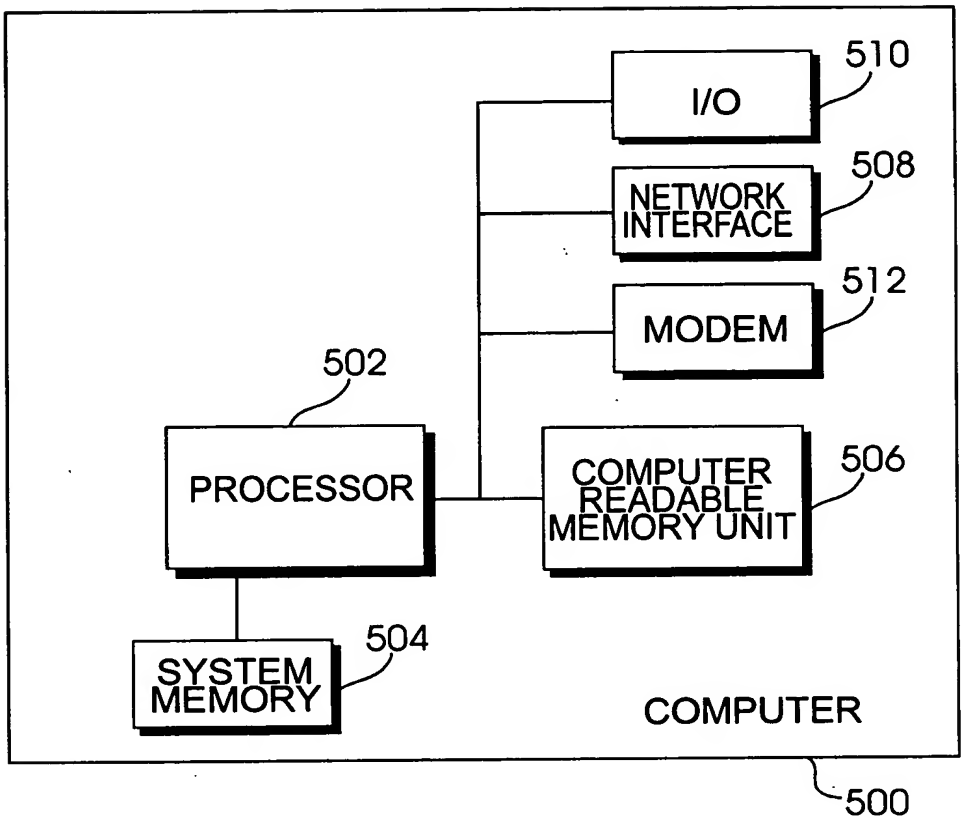

START
S100
SNMP AGENT RECEIVES MESSAGE
S200
CAN MESSAGE BE NORMALLY EXECUTED?
YES
S300
TRANSMIT NORMAL RESPONSE TO MANAGER
NO
S400
CAN MESSAGE BE REPRESENTED BY STANDARD ERROR CAUSE?
YES
S410
TRANSMIT RESPONSE DEFINED BY SNMP V1/V2 STANDARD ERROR CAUSE
NO
S420
TRANSMIT RESPONSE DEFINED BY TL1 ERROR CAUSE
END

FIG. 5


I/O
510
NETWORK INTERFACE
508
MODEM
512
502
PROCESSOR
COMPUTER READABLE MEMORY UNIT
506
SYSTEM MEMORY
504
COMPUTER
500